

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-330295

(43)Date of publication of application : 15.12.1998

(51)Int.Cl.

C07C 13/64
 C07C 25/22
 C07C 39/17
 C07C 43/168
 C07C 43/21
 C07C 43/225
 C07C 43/267
 C07C 47/546
 C07C 49/788
 C07C 63/49
 C07C 69/21
 C07C 69/76
 C07C205/06
 C07C211/50
 C07C233/65
 C07C255/51
 C07C321/28
 C09K 11/06
 H05B 33/14
 H05B 33/22

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(21)Application number : 10-090358

(71)Applicant : MITSUI CHEM INC

(22)Date of filing : 02.04.1998

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(30)Priority

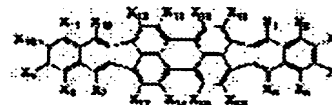
Priority number : 09 86527 Priority date : 04.04.1997 Priority country : JP

(54) HYDROCARBON COMPOUND AND ORGANIC ELECTRIC FIELD LUMINOUS ELEMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject element having excellent luminous efficiency, enabling luminescence of high brightness, by adding a specific compound to a luminous layer.

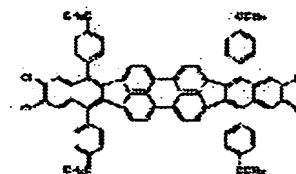
SOLUTION: This element is constituted by holding at least one luminous layer containing at least one dibenzo[f,f']diindeno[1,2,3-cd:1',2',3'-lm]perylene derivative between a pair of electrodes. In this case, a compound of formula I (X₁ to X₂₀ are each H, a halogen, an alkyl, etc.) is preferable as the perylene derivative. For example, a compound of formula II, a compound of formula III, etc., may be cited as the compound. Preferably a luminous layer containing the perylene derivative further contains a luminous organic metal complex such as tris(8-quinolinolate) aluminum. The compound of formula I is obtained by reacting a compound of formula IV with a compound of formula V in the presence of aluminum chloride/sodium chloride or cobalt fluoride. Consequently an element having high brightness and excellent durability and luminous in orange to red can be obtained.



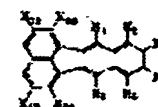
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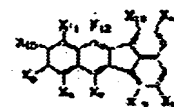
II



III



IV



V

LEGAL STATUS

[Date of request for examination] 07.07.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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